



CONTENTS OF VOLUME 32

Number 1

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Evaluation of Non-Contact Infrared Thermometry for Measuring the Temperature of Pig Carcasses in Chillers | 1 |
| S. L. METTERNICK-JONES & S. G. SKEVINGTON (Australia) | |
| The Influence of Different Centralised Pre-Packaging Systems on the Shelf-Life of Fresh Pork | 11 |
| E. M. SCHOLTZ, E. JORDAAN, J. KRÜGER, G. L. NORTJÉ & R. T. NAUDÉ (Republic of South Africa) | |
| The Influence of Additives on the Oxidation of Pork Back Fat and its Effect on Water and Fat Binding in Finely Comminuted Batters | 31 |
| I. BLOUKAS & K. O. HONIKEL (FRG) | |
| Thermal Scanning Rheology of Myofibrillar Proteins from Muscles of Defined Fibre Type | 45 |
| O. A. YOUNG, P. J. TORLEY & D. H. REID (New Zealand) | |
| The Influence of Pre-Slaughter Oral Loading of Acid or Base on Post-Mortem Changes in <i>Longissimus Dorsi</i> Muscle of Pork | 65 |
| D. U. AHN, J. F. PATIENCE, A. FORTIN & A. McCURDY (Canada) | |
| The Variation in Pig Muscle Glycolytic Potential during Lairage—An In-Vivo Study | 81 |
| XAVIER FERNANDEZ, MATS MÅGÅRD & EVA TORNBERG (Sweden) | |
| The Use of Proteases from Extreme Thermophiles for Meat Tenderisation. | 93 |
| S.-A. WILSON, O. A. YOUNG, T. COOLBEAR & R. M. DANIEL (New Zealand) | |
| Lipid Composition of Adipose Tissue and Muscle in Pigs with an Increasing Proportion of Meishan Genes | 105 |
| G. GANDEMER, MICHÈLE VIAU, J. C. CARITEZ & C. LEGAULT (France) | |

Number 2

| | |
|-----------------------------------------------------------------------------------------------------------------|-----|
| A Technique for Muscle Biopsy Sampling on Pigs to Assess Intramuscular Fat | 123 |
| H. VILLÉ, G. MAES, R. GEERS, V. GOEDSEELS, G. PARDUYNS, J. VAN BAELE, S. JANSSENS & P. DEKEMPENEER (Belgium) | |

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Glycogen Content, Buffering Capacity and Resting pH in Live Muscles of Pigs of Different Halothane Genotypes (a Pilot Project) | 131 |
| POUL HENCKEL, PREBEN FOGD JØRGENSEN & POUL JENSEN (Denmark) | |
| On the Assessment of Water-Holding Capacity of Hot- vs Cold-Boned Pork | 139 |
| RIËTTE L. J. M. VAN LAACK & FRANS J. M. SMULDERS (The Netherlands) | |
| The Effects of Ante-Mortem Feed and Water Withdrawal, Ante-Mortem Electrolyte Supplementation, and Post-Mortem Electrical Stimulation on the Palatability and Consumer Acceptance of Bull Beef after Ageing (6 Days at 1°C) | 149 |
| L. E. JEREMIAH, A. L. SCHAEFER & L. L. GIBSON (Canada) | |
| Effects of Ultrarapid Chilling and Ageing on Length of Sarcomeres, and Tenderness of Pork | 161 |
| F. FELDHOUSEN & M. KÜHNE (FRG) | |
| Effect of Pre-scalding Brushing on Contamination Level of Pork Carcasses during the Slaughtering Process | 173 |
| M. RAHKIO, H. KORKEALA, I. SIPPOLA & M. PELTONEN (Finland) | |
| The Effect of Boning and Plant Cleaning on the Contamination of Beef Cuts in a Commercial Boning Hall | 185 |
| J. J. SHERIDAN, B. LYNCH & D. HARRINGTON (Ireland) | |
| A Note on the Use of Subjective Methods for Assessing Pig Meat Quality on the Slaughterline | 195 |
| S. N. BROWN (UK) | |
| Improvement of Shelf-life and Wholesomeness of Ground Beef by Irradiation I. Microbial Aspects | 203 |
| N. LEFEBVRE, CHANTAL THIBAUT & R. CHARBONNEAU (Canada) | |
| The Influence of Mincing and Temperature of Storage on the Oxidation of Pork Back Fat and its Effect on Water- and Fat-Binding in Finely Comminuted Batters | 215 |
| I. BLOUKAS & K. O. HONIKEL (FRG) | |
| Research Notes | |
| A Rapid and Simple Method for Preparing Pork with Very Low Bacterial Contamination | 229 |
| R. H. BOERS, K. E. DIJKMANN & MONIQUE H. G. TERSTEEG (The Netherlands) | |
| Pressure-Induced Conversion of α -Connectin to β -Connectin | 237 |
| K. KIM, Y. IKEUCHI & A. SUZUKI (Japan) | |

Number 3

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Pig Slaughtering Procedures: Head-to-Back Stunning | 245 |
| S. B. WOTTON, M. H. ANIL, P. E. WHITTINGTON & J. L. MCKINSTRY (UK) | |
| Effect of Ionizing Radiation on Unesterified Tocopherols in Fresh Chicken Breast Muscle | 257 |
| L. LAKRITZ & D. W. THAYER (USA) | |
| Classification of Pig Myofibres and Assessment of Post-mortem Glycogen Depletion According to Fibre Type by Computerized Image Analysis | 267 |
| L. LEFAUCHEUR, P. BUCHE, P. ECOLAN & M. LEMOING (France) | |
| Effect of Nitrate, Nitrite and Ascorbate on Colour and Colour Stability of Dry, Fermented Sausage Prepared using 'Back Slopping' | 279 |
| G. ALLEY, D. COURTS & D. DEMEYER (Belgium) | |
| Effects of Aqueous Washings on Colour and Nutrient Quality of Mechanically Deboned Chicken Meat | 289 |
| F. SHAHIDI, J. SYNOWIECKI & A. C. ONODENALORE (Canada) | |
| Comparative Action of Cathepsins B and L on Intramuscular Collagen as Assessed by Differential Scanning Calorimetry | 299 |
| JOSÉ ANTONIO BELTRÁN (Spain), MADELEINE BONNET & AHMED OUALI (France) | |
| Haematological and Clinico-chemical Profiles of Barrows at the Farm and at Slaughter | 307 |
| J. ODINK, A. R. W. ELBERS, J. F. M. SMEETS, I. J. R. VISSER, P. ALSEMGEST & G. WIJNGAARDS (The Netherlands) | |
| The Assessment of Pre-slaughter and Slaughter Treatments of Livestock by Measurement of Plasma Constituents—A Review of Recent Work | 311 |
| F. D. SHAW & R. K. TUME (Australia) | |
| Autoxidation of Purified Myoglobin from Two Bovine Muscles | 331 |
| M. RENERRE, M. ANTON & PH. GATELLIER (France) | |
| Heme Pigment Content in Meat as Affected by the Addition of Curing Agents | 343 |
| R. SAKATA & Y. NAGATA (Japan) | |
| Research Note | |
| Marbling, Intramuscular Fat and Meat Colour of Dutch Pork | 351 |
| P. G. VAN DER WAL, W. J. OLSMAN, G. J. GRASSEN & B. ENGEL (The Netherlands) | |

Number 4

| | |
|--------------------------------------------------------------------------------------------------------------------|-----|
| Tenderisation of Lamb Meat: Effect of Rapid Postmortem Temperature Drop on Muscle Conditioning and Aging | 357 |
| I. JAIME, J. A. BELTRÁN, P. CEÑA, P. LÓPEZ-LORENZO & P. RONCALÉS (Spain) | |

| | |
|--------------------------------------------------------------------------------------------------------------------------|-----|
| Effect of Mixing Male and Sex Types of Cattle on their Meat Quality and Stress-Related Parameters | 367 |
| A. B. MOHAN RAJ, B. W. MOSS, D. A. RICE, D. J. KILPATRICK, W. J. MCCAUGHEY & W. MCLAUCHLAN (UK) | |
| Performance and Carcass Characteristics of Bulls as Influenced by Exogenous Hormones | 387 |
| S. D. SHACKELFORD, J. D. CROUSE, J. W. SAVELL, H. R. CROSS, B. D. SCHANBACHER & D. D. JOHNSON (USA) | |
| Palatability of Beef from Bulls Administered Exogenous Hormones | 397 |
| S. D. SHACKELFORD, J. W. SAVELL, J. D. CROUSE, H. R. CROSS, B. D. SCHANBACHER, D. D. JOHNSON & M. L. ANDERSON (USA) | |
| Consumer Attitudes to Selected Lamb Cuts | 407 |
| D. L. HOPKINS, K. L. PIRLOT & R. GITTINS (Australia) | |
| Microbiological Effects of Acid Decontamination of Pork Carcasses at Various Locations in Processing | 413 |
| R. K. PRASAI, G. R. ACUFF, L. M. LUCIA, J. B. MORGAN, S. G. MAY & J. W. SAVELL (USA) | |
| The Microbiology of Sheep Carcasses Processed in a Modern Indian Abattoir | 425 |
| D. NARASIMHA RAO & B. S. RAMESH (India) | |
| The Microbiological and Technological Properties of Bruised Beef | 437 |
| S. A. ROGERS, N. W. HOLLYWOOD & G. E. MITCHELL (Australia) | |
| Fatty Acid Composition of Subcutaneous and Intramuscular Adipose Tissues and <i>M. longissimus dorsi</i> of Wagyu Cattle | 449 |
| C. A. STURDIVANT, D. K. LUNT, G. C. SMITH & S. B. SMITH (USA) | |

